

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,013	09/12/2003	Geert Matthys	920522-94795	8589
23644	7590 03/17/2005		EXAMINER	
BARNES & THORNBURG		KOVAL, MELISSA J		
P.O. BOX 2786 CHICAGO, IL 60690-2786			ART UNIT	PAPER NUMBER
00.100,			2851	

DATE MAILED: 03/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Application Application				
Examiner Meliasa J. Koval 2851 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Exemptions of them may be available under the provisions of 37 CPR 1.135(a). In one event, however, may a reply be timely filled - If the period for reply is pecified above, the mainture standary prior deliancy to event, however, may a reply be timely filled - If the period for reply is pecified above, the mainture standary prior deliancy and will expens SK (8) MONTHS from the realizing date of the communication of the period for reply is pecified above, the mainture standary prior deliancy and will expens SK (8) MONTHS from the realizing date of this communication, even if timely filled. - If NO period for reply is pecified above, the mainture standary prior deliancy and will expens SK (8) MONTHS from the realizing date of this communication, even if timely filled. - If NO period for reply is pecified above, the mainture and the period of the communication of the period of the communication of the period of the communication. - If NO period for reply is pecified above, the mainture and the period of the communication of the period of the communication of the period of the communication. - If NO period for reply is pecified to the period of the communication of the period of the period of the period of the communication of the period of the drawing(s) is objected to by the Examiner. - Application Papers - 9 \(\) The specification is objected to by the Examiner. Note the attached Office Action or form PTO-152. - Priority under 35 U.S.C. § 119 - 1 \(\) Object of the peri	•	Application No.	Applicant(s)	
Melissa J. Koval - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. A SHORTENED STATUTORY DETROID FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. If the period for reply specified above is last that this (30) days, a reply within the stantory melitrating of this (30) days will be considered sinely. If the period for reply specified above is last that this (30) days, a reply within the stantory melitrating and the standary period will apply and will access 50.0 MoNTh's town tensing date of this communication. If the period for reply specified above, the maximum standary period will apply and will access 50.0 MoNTh's town tensing date of this communication. If the period for reply specified above, the maximum standary period will apply and will access 50.0 MoNTh's town tensing date of this communication. Any reply received by the Office later than three months after the making date of this communication, even if timely filed, may reduce any centre of the standard transport of the maximum standard transport of the standard standard transport of the practice under Exparte Quayrie, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims A) Claim(s)	Office Action 6	10/662,013	MATTHYS ET AL.	(IN)
- The MALING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extentions of time mylt be available under the provisors of 3°C RT 1.30(a). In re-event, however, may a reply be timely filed If the period for reply specified above is less than thisty (30) days, a reply within the adultary mellowal most problem of the period for reply specified above is less than thisty (30) days, a reply within the adultary period all application to the communication of the period for reply specified above is less than thisty (30) days, a reply within the adultary period all application to become ABANDONED (38 U.S.C. § 133). Final replaced for reply specified above is less than thisty (30) days, a reply within the adultary period all application to become ABANDONED (38 U.S.C. § 133). The Responsive to communication(s) filed on 2a)— This action is FINAL. 2b) This action is FINAL. 2b) This action is FINAL. 2b) This action is Final. 2c) Claim(s) 1.5 is fare pending in the application. 4) Claim(s) 1.5 is fare pending in the application. 4) Claim(s) 1.5 is fare pending in the application. 4) Claim(s) 1.5 is fare pending in the application. 4) Claim(s) 1.5 is fare rejected. 7) Claim(s) 1.5 is fare rejected. 7) Claim(s) 1.5 is fare objected to by the Examiner. 10) The above claim(s) 1.5 is fare objected to by the Examiner. 10) The application is objected to by the Examiner. 10) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 3)—Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 3)—Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 3)—Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 3)—Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 3)—Ackno	Office Action Summary	Examiner	Art Unit	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Enteractive of time rays to available under the provisions of 37 CFR 1.35(s), in no event, however, may a reply be timely field - Enteractive of time rays to available under the provisions of 37 CFR 1.35(s), in no event, however, may a reply be timely field - If NO period for reply is appelled above, the maximum statutory partied will apply and will expire SX (6) MONTHS from the mailing date of this communication. - Failure to its grow within the six to extended period for ringly will by statuke. Scale the supplication for the mailing date of this communication, even if timely field, may notice any statute and dates to term adjustment. See 37 CFR 1.704(s). - Status 1) Responsive to communication(s) filled on				
THE MAILING DATE OF THIS COMMUNICATION. Extensions of mem pay be available under the provision of 3°C FR 1.13(g). In no event, however, may a righly be linely filed after SX (5) MONTHS from the mailing date of this communication. Follow (5) MONTHS from the mailing date of this communication. Follow (6) MONTHS from the mailing date of this communication. Follow (7) MONTHS from the mailing date of this communication. Follow (7) MONTHS from the mailing date of this communication. Follow (7) MONTHS from the mailing date of this communication. Follow (7) MONTHS from the mailing date of this communication. Follow (8) MONTHS fro		n appears on the cover sheet w	ith the correspondence addres	SS
1) Responsive to communication(s) filed on	 THE MAILING DATE OF THIS COMMUNICATI Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days. If NO period for reply is specified above, the maximum statutory. Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the 	ON. FR 1.136(a). In no event, however, may a roon. , a reply within the statutory minimum of third period will apply and will expire SIX (6) MON statute, cause the application to become AB	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this community BANDONED (35 U.S.C. § 133).	inication.
2a) This action is FINAL. 2b) This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s)	Status			
3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5 Claim(s) 1-5 is/are allowed. 6 Claim(s) 5-5 is/are rejected. 7 Claim(s) is/are objected to. 8 Claim(s) is/are objected to. 8 Claim(s) is/are objected to possible to restriction and/or election requirement. Application Papers 9 The specification is objected to by the Examiner. 10 The drawing(s) filed on 12 September 2003 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11 The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12 Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1 Notice of References Cited (PTO-892) Notice of Informal Patent Application (PTO-152)	1) Responsive to communication(s) filed on			
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)				
4)	, —	•		erits is
4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ☒ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☒ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 12	Disposition of Claims			
9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 12 September 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	4a) Of the above claim(s) is/are wit 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1-5</u> is/are rejected. 7) ☐ Claim(s) is/are objected to.	hdrawn from consideration.		
10) ☐ The drawing(s) filed on 12 September 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	Application Papers			
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	10)⊠ The drawing(s) filed on <u>12 September 200</u> Applicant may not request that any objection t Replacement drawing sheet(s) including the c	0.3 is/are: a) accepted or b) 0.3 is/are: a) be held in abeyar orrection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1	.121(d).
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	Priority under 35 U.S.C. § 119			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)	12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B	ments have been received. ments have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	pplication No received in this National Sta	ge
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)	Attachment(s)			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)				
	3) X Information Disclosure Statement(s) (PTO-1449 or PTO/S	SB/08) 5) D Notice of I	nformal Patent Application (PTO-152	2)

Application/Control Number: 10/662,013

Art Unit: 2851

DETAILED ACTION

The disclosure is objected to because of the following informalities: The title on page 1 of the specification is missing letters.

Appropriate correction is required.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, projector, and screen set forth in independent claims 1 and 4 and the projector and test pattern of independent claim 5 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner,

Art Unit: 2851

the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 are rejected under 35 U.S.C. 102(b) as being anticipated by Buckley et al. ('756).

See Figure 1, for example, and The BACKGROUND OF THE INVENTION, column 1, lines 19 through 37, of '756.

Claim 1 sets forth: "A test pattern generator (test pattern generator 26) for alignment of a projected light from at least one projector onto a screen, comprising (See electronic display device 12 including CRT assemblies and television sets or computer monitors and column 4, lines 25 through 35.):

a plurality of directed light sources (Optical sensors 16 generate video image signals.), the test pattern generator having a surface (test fixture 14), each light source being moveably fixed on the surface and being adjustably settable such that a direction of light emitted from each light source can be set for directing light from the light source onto the screen." See column 4, lines 36 through 52.

Application/Control Number: 10/662,013

Art Unit: 2851

Claim 2 sets forth: "The test pattern generator of claim 1, wherein the surface is provided by a sheet material and movement of each light source puts the sheet material into plastic deformation." See wobulator 18 and column 4, lines 33 through 35.

Claim 3 sets forth: "The test pattern generator according to claim 2, wherein the sheet material is made from a material which does not work harden." There is no suggestion in the teaching of Buckley et al. ('756) that test fixture 14 supporting wobulator 18 deteriorates in performance over time.

Claim 4 sets forth: "A method of adjusting directed light sources for generating a test pattern for alignment of a projected light from at least one projector onto a screen, the method comprising moving the light sources in at least two different directions from a surface onto which they are mounted. See Figures 2A through 2C, for example, and columns 5 and 6, in their entirety."

Claim 5 sets forth: "A method of aligning a projector, comprising projecting onto a screen a test pattern comprising a plurality of discrete image 20 components, the position of each image component being individually settable, and adjusting at least one projector with respect to at least one of convergence, geometry, adjacent geometry and overlapping geometry using the test pattern." See column 4, lines 53 through 67; column 8, lines 11 through 50 and column 10, lines 49 through 67.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Art Unit: 2851

Yamasaki et al. U.S. Patent 6,695,451 B1 teaches a multi-projection image display device.

Ejiri et al. U.S. Patent 6,361,171 B1 teaches a projector with adjustably positioned image plate.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melissa J. Koval whose telephone number is (571) 272-2121. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571)272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

MJK